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SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GREENBELT, MARYLAND

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January 16, 1962

The following report reflects data computed and compiled by
Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical
Observatory as of 1200Z on January 16, 1962.

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Jan. 16, 1962

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OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE S. MILES</u>	<u>PERIGEE S. MILES</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1958 ALPHA 1	EXPLORER I	US	1 FEB 58	106.0	33.19	1085	217	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.2	34.26	2679	406	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.8	34.24	2453	396	108.022
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.4	32.87	2066	329	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.90	2257	370	
1959 ETA 1	VANGUARD III	US	18 SEP 59	129.8	33.30	2299	338	
1959 MU*	LUNIK I	USSR	2 JAN 59	450D	0.01	1.3177AU	0.9766AU	
1959 NU*	PIONEER IV	US	3 MAR 59	398D	0.127	1.1421AU	0.9871AU	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.31	669	344	
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	100.9	50.30	656	345	
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9951AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	463	429	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	467	429	107.997
1960 BETA 3	NONE	US	1 APR 60	97.8	48.46	445	375	
1960 BETA 4	NONE	US	1 APR 60	99.8	48.15	503	434	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	94.7	51.28	401	229	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.21	458	299	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	91.5	65.02	271	160	
1960 EPSILON 3	NONE	USSR	15 MAY 60	92.9	64.89	350	170	
1960 EPSILON 4	NONE	USSR	15 MAY 60	POSITION UNCERTAIN				
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.2	33.01	310	299	
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	649	389	
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	657	381	162;216;
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	642	383	
1960 IOTA 1	ECHO I	US	12 AUG 60	116.2	47.30	1254	624	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1049	932	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.2	47.20	1049	941	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.23	1071	922	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.20	1060	940	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.8	28.20	750	604	107.9709
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.29	751	576	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.4	49.92	1409	258	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.2	49.98	1398	256	
1960 XI 3	NONE	US	3 NOV 60	110.8	49.39	1326	250	
1960 XI 4	NONE	US	3 NOV 60	111.7	50.52	1362	262	

OBJECTS IN ORBIT (CONT'D)

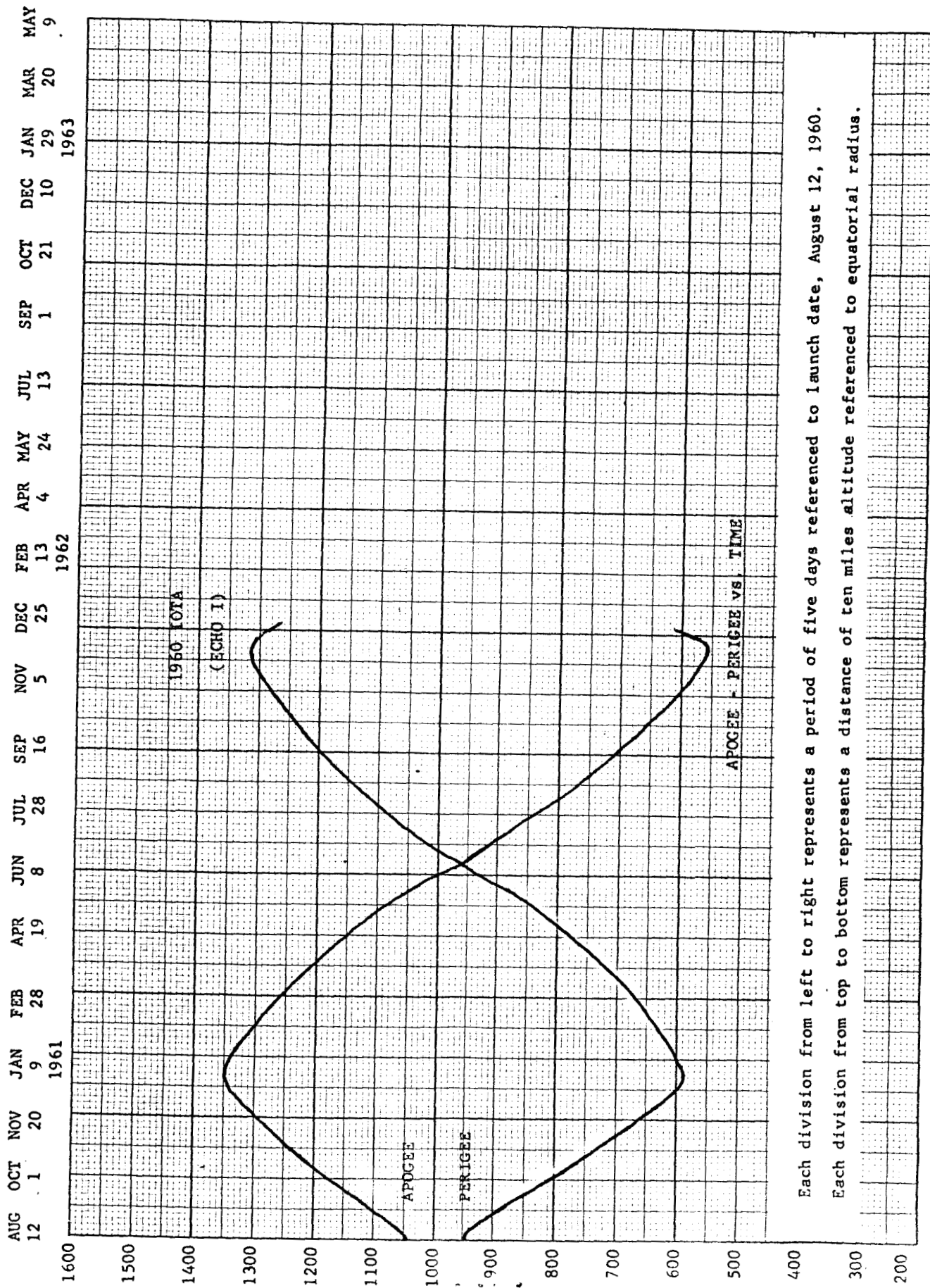
OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLINATION	APOGEE S. MILES	PERIGEE S. MILES	TRANSMITTING FREQ. (MC/S)
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	461	378	
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	455	378	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.46	453	383	
1960 PI 4	NONE	US	23 NOV 60	98.3	48.51	455	389	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.40	339	295	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.9	97.40	337	295	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.581	1.0190AU	0.7183AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.0	38.81	1521	466	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.77	1628	379	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	1555	438	
1961 DELTA 4	NONE	US	16 FEB 61	POSITION UNCERTAIN				
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	92.8	80.91	344	167	
1961 ZETA 1	DISCOVERER XXI	US	18 FEB 61	92.9	80.74	367	146	
1961 KAPPA 1	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	91.7	82.31	275	166	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	95.4	81.94	547	120	
1961 NU 1	EXPLORER XI	US	27 APR 61	107.8	28.78	1139	271	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.8	66.81	620	547	54; 150; 324; 400
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	66.82	619	548	136.5
1961 OMICRON 3-52**	METAL OBJECT	US	29 JUN 61					
1961 RHO 1	TIROS III	US	12 JUL 61	100.3	47.90	511	457	108.0; 108.03
1961 RHO 2	ROCKET BODY	US	12 JUL 61	100.3	47.85	503	462	
1961 RHO 3	METAL OBJECT	US	12 JUL 61	98.8	47.92	500	376	
1961 RHO 4	METAL OBJECT	US	12 JUL 61	101.9	47.89	563	498	
1961 SIGMA 1	MIDAS III	US	12 JUL 61	161.5	91.13	2197	2084	
1961 SIGMA 3	METAL OBJECT	US	12 JUL 61	161.2	91.13	2179	2085	
1961 SIGMA 4	METAL OBJECT	US	12 JUL 61	161.9	91.15	2205	2096	
1961 UPSILON 1	EXPLORER XII	US	16 AUG 61	1587.8	33.43	47639	481	
1961 ALPHA DELTA 1	MIDAS IV	US	21 OCT 61					
1961 ALPHA EPSILON 1	DISCOVERER XXXIV	US	5 NOV 61	96.3	82.52	576	140	

OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE S. MILES</u>	<u>PERIGEE S. MILES</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1961 ALPHA ETA 1	TRANSIT IV-B	US	15 NOV 61	105.6	32.43	689	593	136.8; 54; 324; 150; 400
1961 ALPHA ETA 2	TRACC	US	15 NOV 61	105.6	32.43	699	581	136.65; 54; 324
1961 ALPHA ETA 3	ROCKET BODY	US	15 NOV 61	105.5	32.41	686	588	
• 1961 ALPHA KAPPA 1	DISCOVERER XXXVI	US	12 DEC 61	91.2	81.21	272	139	20.005; 40.01
1961 ALPHA KAPPA 2	OSCAR	US	12 DEC 61	90.4	81.21	222	138	145

*APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

**FIFTY METAL OBJECTS HAVE BEEN IDENTIFIED IN THE PLANE OF THE 1961 OMICRON 1 AND 1961 OMICRON 2 ORBITS.



Each division from left to right represents a period of five days referenced to launch date, August 12, 1960.
 Each division from top to bottom represents a distance of ten miles altitude referenced to equatorial radius.